AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1.   (currently amended): A method for processing data received through a wireless channel, in a communication device that supports bluetooth wireless communication, comprising the steps of:

(a) a bluetooth module receiving data through a wireless channel;

(b) the bluetooth module informing a bluetooth host, through a universal serial bus (USB), that received data received through a universal serial bus (USB) exists in the bluetooth module; and

(c) the bluetooth host reading the data received by the bluetooth module in the step (a) through the USB when the bluetooth host is informed that received data exists in the step (b).

2.   (original): The method of claim 1, wherein, in the step (b), the bluetooth module informs the bluetooth host that the received data exists in the bluetooth module when the bluetooth module receives from the bluetooth host a request for checking whether the received data exists in the bluetooth module, in response to the request for checking whether the received data exists.

3.   (original): The method of claim 2, wherein, in the step (b), the request for checking whether the received data exists is performed using a request for interrupt, which is periodically transferred by the bluetooth host to the bluetooth module through the USB, and the informing is performed using an event packet.

4.   (original): The method of claim 3, wherein the step (c) comprises the steps of:

(c1) the bluetooth host making a request to the bluetooth module through the USB that

the data received in the step (a) be sent from the bluetooth module to the bluetooth host when the

bluetooth host is informed that received data exists in the step (b) through the event packet; and

(c2) the bluetooth module providing the data received in the step (a) to the bluetooth host

through the USB when the bluetooth module receives the request for the received data in the step

(c1).

5.   (original): The method of claim 4, wherein the event packet comprises a link type

field as a parameter field, for indicating an asynchronous link or a synchronous link,

and wherein, in the step (c1), a request for synchronous or asynchronous data is

performed according to the value of the link type field in the event packet.

6.   (original): The method of claim 4, wherein the event packet comprises a data

length field as a parameter field, for indicating the length of the data received in the step (a),

and wherein, in the step (c), the request for the received data in the step (c1) and the

provision of the received data in the step (c2) are repeated an appropriate number of times, with

reference to the value of the data length field in the event packet.

7.   (original): A method for processing data received through a wireless channel in a

bluetooth module of a communication device that supports bluetooth wireless communication,

comprising the steps of:

(a) receiving from a bluetooth host through a universal serial bus (USB) a request for

checking whether received data exists in a bluetooth module;

(b) the bluetooth module informing the bluetooth host through the USB that received data

exists when data received from the outside through a wireless channel exists in the bluetooth

module;

(c) receiving from the bluetooth host, which is informed in the step (b) that the received

data exists, through the USB, a request for the received data; and

(d) the bluetooth module, after receiving the request for received data, providing the data

received from the outside through the wireless channel to the bluetooth host through the USB.

8.   (original): The method of claim 7, wherein the request for checking whether

received data exists, which is received in the step (a), is performed using a request for interrupt

which is periodically transferred by the bluetooth host to the bluetooth module through the USB,

and wherein the informing in the step (b) is performed using an event packet.

9.   (original): The method of claim 8, wherein the event packet comprises a link type

field as a parameter field for indicating an asynchronous link or a synchronous link,

and wherein a request for synchronous or asynchronous data according to the value of the

link type field in the event packet is received from the bluetooth host in the step (c).

10.   (original): The method of claim 8, wherein the event packet comprises a data

length field as a parameter field for indicating the length of the received data,

wherein data of a limited length is provided to the bluetooth host in the step (d),

and wherein the steps (c) and (d) are repeated an appropriate number of times according

to the value of the data length field in the event packet.

11.   (original): A computer readable recording medium for recording a program

which is executed in a computer for processing received data, in a bluetooth module of a

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communication device that supports bluetooth wireless communication, wherein the program

comprises the steps of:

(a) receiving a request from a bluetooth host through a universal serial bus (USB), for

checking whether received data exists in a bluetooth module;

(b) informing the bluetooth host through the USB that received data exists when data

received from the outside through a wireless channel exists in the bluetooth module;

(c) receiving from the bluetooth host, which is informed that the received data exists in

the step (b) through the USB a request for the received data; and

(d) transferring the data received from the outside through the wireless channel to the

bluetooth host through the USB.

12.   (original): A method for processing data received through a wireless channel, in a

bluetooth host of a communication device that supports bluetooth wireless communication,

comprising the steps of:

(a) a bluetooth host transferring a request to a bluetooth module through a universal serial

bus (USB), for checking whether data received from the outside through a wireless channel

exists;

(b) being informed by the bluetooth module through the USB that data received through

the wireless channel exists when data received from the outside through the wireless channel

exists in the bluetooth module;

(c) making a request to the bluetooth module through the USB that the received data be

sent from the bluetooth module to the bluetooth host, when the bluetooth host is informed that

received data exists in the step (b); and

(d) receiving from the bluetooth module through the USB, the data received by the bluetooth module from the outside through the wireless channel.

13.   (original): The method of claim 12, wherein the request for checking whether the received data exists, which is transferred in the step (a), is performed using a request for interrupt which is periodically transferred by the bluetooth host to the bluetooth module through the USB, and wherein the informing in the step (b) is performed by an event packet.

14.   (original): The method of claim 13, wherein the event packet comprises a link type field as a parameter field for indicating an asynchronous link or a synchronous link, wherein a request for synchronous or asynchronous data to the bluetooth module is performed according to the value of the link type field in the event packet in the step (c).

15.   (original): The method of claim 13, wherein the event packet comprises a data length field as a parameter field; for indicating the length of the data received from the outside through the wireless channel,

wherein data of a limited length is received in the step (d),

and wherein the steps (c) and (d) are repeated an appropriate number of times according to the value of the data length field in the event packet.

16.   (original): A computer readable recording medium for recording a program which is executed in a computer for processing received data, in a bluetooth host of a communication device that supports a bluetooth wireless communication, wherein the program comprises the steps of:

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(a) transferring a request to a bluetooth module through a universal serial bus (USB), for checking whether data received from the outside through a wireless channel exists in a bluetooth module;

(b) being informed from the bluetooth module through the USB that data received through the wireless channel exists when data received from the outside through the wireless channel exists in the bluetooth module;

(c) making a request to the bluetooth module through the USB that the received data be sent from the bluetooth module to the bluetooth host, when the bluetooth host is informed that the received data exists in the step (b); and

(d) receiving from the bluetooth module through the USB, the data received by the bluetooth module from the outside through the wireless channel.

17.   (original): A communication apparatus for supporting bluetooth wireless communication, comprising:

a bluetooth module for transferring and receiving data through a wireless channel;

a bluetooth host for transferring data received from an application to the bluetooth module, reading data received in the bluetooth module, and transferring the received data to the application; and

a universal serial bus (USB) for connecting the bluetooth module and the bluetooth host,

wherein the bluetooth module informs the bluetooth host through the USB that received data exist, when data received through the wireless channel exists in the bluetooth module,

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and wherein the bluetooth host reads through the USB the data received in the bluetooth

module when the bluetooth host is informed by the bluetooth module that the received data

exists.

18.   (original): The apparatus of claim 17, wherein the bluetooth module informs that

received data exists in the bluetooth module using an event packet in response to a request for

interrupt which is periodically transferred by the bluetooth host to the bluetooth module through

the USB, when the data received through the wireless channel exists in the bluetooth module.

19.   (original): The apparatus of claim 18, wherein the event packet comprises a link

type field as a parameter field for indicating an asynchronous link or a synchronous link and a

data length field as a parameter field for indicating the length of the data received from the

outside through the wireless channel.